

10 CSR 10-5.390 Control of Emissions From Manufacture of Paints, Varnishes, Lacquers, Enamels and Other Allied Surface Coating Products

(1) Application.

(A) This rule shall apply throughout St. Louis City and Jefferson, St. Charles, Franklin and St. Louis Counties.

(B) This rule applies to all installations which have the uncontrolled potential to emit more than two hundred fifty kilograms (250 kg) per day or one hundred (100) tons per year of volatile organic compounds (VOCs) from the manufacture of paints, varnishes, lacquers, enamels and other allied surface coating products.

(2) Definitions of certain terms specified in this rule may be found in 10 CSR 10-6.020.

(3) General. No owner or operator of a manufacturing installation subject to this rule and producing the products listed in section (1) shall cause or allow the manufacture of these products unless the operating equipment meets the requirements contained in this rule and without adhering to operating procedures specified in this rule and operating procedures recommended by the equipment manufacturer and approved by the director.

(4) Operating Equipment and Operating Procedure Requirements.

(A) Tanks storing VOC with a vapor pressure greater than or equal to 10 kilopascals (kPa) (1.5 psi) at twenty degrees Celsius (20/ C), shall be equipped with pressure/vacuum conservation vents set at ± 0.2 kPa (.029 psi), except where more effective air pollution control is used and has been approved by the director. Stationary VOC storage containers with a capacity greater than two hundred fifty (250) gallons shall be equipped with a submerged-fill pipe or bottom fill, except where more effective air pollution control is used and has been approved by the director.

(B) Covers shall be installed on all open-top tanks used for the production of nonwaterbase coating products. These covers shall remain closed except when

production, sampling, maintenance or inspection procedures require operator access.

- (C) Covers shall be installed on all tanks containing VOC used for cleaning equipment. These covers shall remain closed except when operator access is required.
- (D) All vapors from varnish cooking operations shall be collected and passed through a control device which removes at least eighty-five percent (85 %) on a daily basis of the VOC from the vapors before they are discharged to the atmosphere.
- (E) All grinding mills shall be operated and maintained in accordance with manufacturers' specifications. The manufacturers' specifications shall be kept on file and made available to the director upon his/her request.
- (F) The polymerization of synthetic varnish or resin shall be done in a completely enclosed operation with the VOC emissions controlled by the use of surface condensers or equivalent controls.
 - 1. If surface condensers are used, they must be maintained to ensure a ninety-five percent (95 %) overall removal efficiency for total VOC emissions when condensing total VOC of a vapor pressure greater than 26 mmHg (as measured at 20 degrees Celsius).
 - 2. If equivalent controls are used, the VOC emissions must be reduced by an amount equivalent to the reduction which would be achieved under paragraph (4)(F)1. Any owner or operator desiring to use equivalent controls to comply with this subsection shall submit proof of equivalency as part of the control plan required under subsection (5)(A) of this rule. Equivalent controls may not be used unless approved by the director.

(5) Compliance Dates.

- (A) The owner or operator of a paint, varnish, lacquer, enamel or other allied surface coating production manufacturing installation subject to this rule shall submit a final control plan to the director for his/her approval no later than six (6) months after the effective date of this rule (September 11, 1984). This plan shall include a time schedule for compliance containing an engineering design, increments of progress and a final compliance date.
- (B) Compliance with this rule shall be accomplished by any installation as expeditiously as practicable but in no case later than August 12, 1985.

(6) Compliance Methods and Recordkeeping.

- (A) The control efficiency specified in subsections (4)(D) and (F) shall be determined by the testing methods referenced at 10 CSR 10-6.030(14)(A).
- (B) Owners or operators utilizing add-on control technology shall monitor the following parameters continuously while the affected equipment is in operation:
 - 1. Exit stream temperature on all condensers; and
 - 2. Any other parameter which the director determines is necessary to quantify emissions or otherwise determine compliance with this rule.
- (C) Records shall be kept on production rates sufficient to determine daily VOC emissions.
- (D) The owner or operator shall record all information derived from monitoring required under subsections (6)(B) and (C) and shall keep records for a period of not less than two (2) years. All these records shall be made available to the director upon request.

EPA Rulemakings

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CFR: 40 C.F.R. 52.1320(c)(50)

FRM: 50 FR 14925 (4/16/85)

PRM: 49 FR 42749 (10/24/84)

State Submission: 4/10/84

State Proposal: 8 MR 1302 (11/1/83)

State Final: 9 MR 445 (3/1/84)

APDB File: MO-57

Description:	The EPA approved a new regulation to control VOC emissions from the paint manufacturing industry, including other allied surface coating products.
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Difference Between the State and EPA-Approved Regulation

None.

